

AMMA

Synoptic maps Computed at LMD

Contact : Claude Basdevant (basdevant@lmd.ens.fr)

Les cartes synoptiques représentent les champs de vent (CHAMPS_UV), de Température (CHAMPS_T), d'humidité relative, d'écart au point de rosé et de densité (CHAMPS_RHR). Ces champs sont calculées au moyen des prévisions déterministes à 10 jours du CEPMMT/ECMWF. Bien que l'ECMWF produise une prévision météo à 10 jours (240h) deux fois par jour (état initial J de la prévi à 0h TU et 12h TU), les champs sont ici calculées une fois par jour à 0h TU et sont disponibles sur le web vers 7h30 TU.

The synoptic maps are fields of wind (FIELDS_UV), of temperature (FIELDS_T), of relative humidity, dew-point temperature difference and of density (FIELDS_RHR). These fields are computed by means of 10 day deterministic forecasts . Although ECMWF produces ten-day deterministic forecasts (240h) twice a day (at 0h UT and 12h UT), fields are obtained once a day at 0h UT and are available on the web site around 7h30.

On the maps (computed at 0h UT, hour of forecast) :

- FIELDS UV :

- Wind fields for 4 pressure levels :

Pressure = 700 hPa

Pressure = 850 hPa

Pressure = 925 hPa

Pressure = 1000 hPa

- Computational domain 10S – 30N ; 30O – 30E, 2° grid (31x21).
- 8 forecast times : D, D+1, D+2, ..., D+7.
- Wind fields are colored with their direction all days from D to D+7.
- Two pages by pressure levels with 4 maps for each page.

- FIELDS T :

- Temperature for 4 pressure levels :

Pressure = 700 hPa

Pressure = 850 hPa

Pressure = 925 hPa

Pressure = 1000 hPa

- Computational domain 10S – 30N ; 30O – 30E, 2° grid (31x21).
- 8 forecast times : D, D+1, D+2, ..., D+7.
- Temperature maps are drawn each two days from D to D+6.
- One page for each pressure level.

- FIELDS_RHR :

- Relative humidity, Dew-point difference and density for 2 pressure levels :

Pressure = 850 hPa

Pressure = 925 hPa

- Computational domain 10S – 30N ; 30O – 30E, 2° grid (31x21).
- 8 forecast times : D, D+1, D+2, ..., D+7.
- The maps of relative humidity, of dew-point difference and of density are shown for the D day.
- One page with 6 maps.